

H. A. DENNEY.
INVALID SUPPORT.
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1,315,097.

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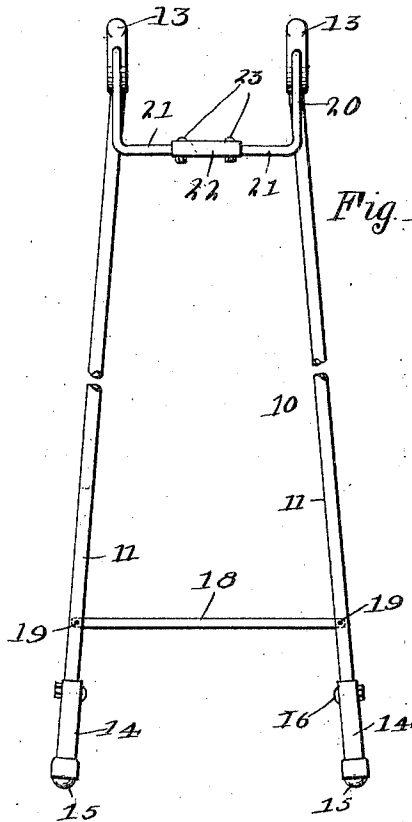


Fig. 1.

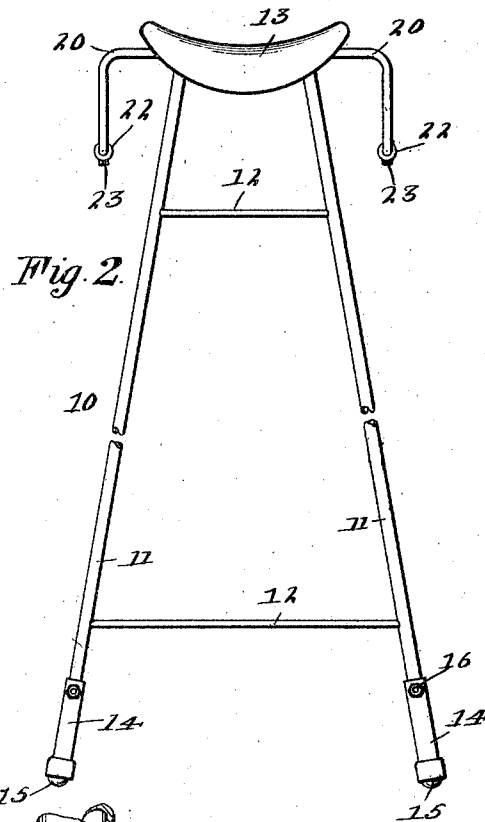


Fig. 2.

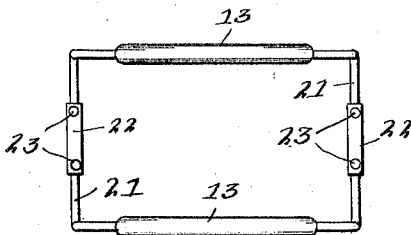


Fig. 3.

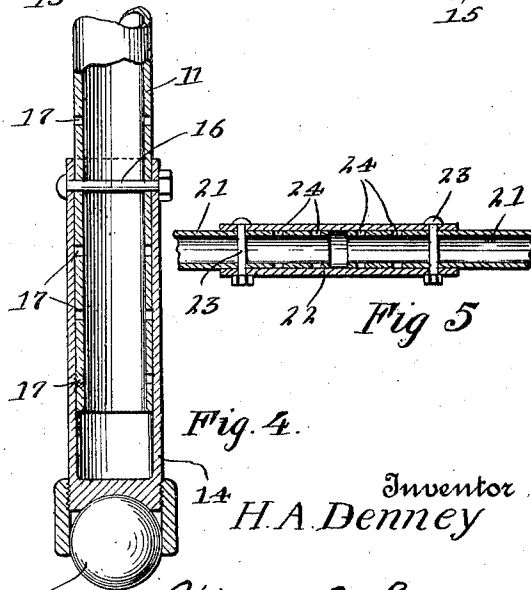


Fig. 4.

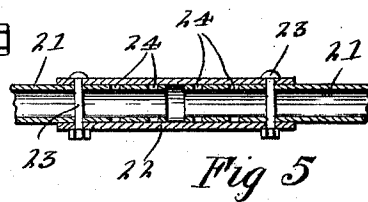


Fig. 5.

Witnesses
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INVALID-SUPPORT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRISON A. DENNEY, a citizen of the United States, residing at Opportunity, in the county of Spokane and State of Washington, have invented new and useful Improvements in Invalid-Supports, of which the following is a specification.

This invention relates to supporting devices for assisting invalids and deformed persons in walking and has for its object the provision of a supporting device including a pair of crutch members provided upon their lower ends with rollers and held in adjustably spaced relation whereby the device may be adapted for use by persons of different sizes, each crutch member being furthermore longitudinally adjustable to accommodate the device to persons of different statures.

An important object is the provision of a device of this character which is provided with two sets of arm pit engaging members disposed 90° apart whereby the user may, by turning half way around, support himself at different heights and consequently have greater freedom of action.

A further object is the provision of a device of this character which will be simple and inexpensive in manufacture, which may be readily applied by the user, which will be efficient and durable in service and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed and illustrated in the accompanying drawings in which:—

Figure 1 is a front elevation of the device

Fig. 2 is a side elevation

Fig. 3 is a plan view

Fig. 4 is a detail sectional view showing the vertical adjustment and

Fig. 5 is a detail sectional view showing the lateral adjustment.

Referring more particularly to the drawings the numeral 10 designates the main supporting members of the device each of which is formed of a pair of upwardly converging preferably tubular legs 11 connected at spaced intervals by transverse bars 12. At their upper ends the legs 11 have secured thereto curved bars 13, which may be padded if desired and which constitute the main arm pit engaging members.

At their lower ends, the legs 11 are tele-

scopically received within tubular sockets 14 upon the lower ends of which are journaled rollers 15. Each socket member 14 has passing therethrough a bolt 16 which may be engaged within a selected one of a plurality of holes 17 formed in the lower ends of the legs 11 whereby the main members 10 may be adjusted vertically.

The members 10 have their lower ends spaced apart by transverse bars 18 which have their ends pivotally connected with the legs 11 as shown at 19. At their upper ends, the members 10 are spaced apart by means of brackets 20 which are secured to the curved bars 13 and which extend downwardly and outwardly as shown and which have their end portions laterally directed as shown at 21 and telescopically engaged within tubular members 22. Each tubular member 22 has passing therethrough a pair of bolts 23 engageable within selected ones of a plurality of holes 24 formed in the end portions 21 of the brackets 20. By means of these bolts 23 and holes 24 the upper ends of the members 10 may be adjusted toward and away from each other so as to accommodate the device to persons of different sizes so that the curved bars 13 will be in proper position to engage the arm 15 of the user.

In the use of the device, it is passed downwardly over the body of the user until his head and shoulders project above the top of the curved bars 13. The bracket members 20 are then adjusted within the tubular members 22 so that the curved bars 13 will be the proper distance apart. After the device is thus applied, its use in assisting an invalid or a deformed person in walking will be obvious. Under ordinary conditions, the user rests his weight, when desired, upon the bars 13 but in some instances, the user may find it desirable to support himself at a lower elevation. In such an event it is merely necessary that he turn himself half way around and engage his arm pit upon the tubular members 22 which are disposed in a lower plane than the plane of the bars 13.

From the foregoing description and a study of the drawing it will be apparent that I have thus provided a very simple supporting device which may be readily adjusted vertically and laterally to accommodate persons of different sizes and which is furthermore so constructed that the user may sup-

port himself at different elevations whereby to obtain greater freedom of movement.

While I have shown and described the preferred embodiment of the invention, it will of course be readily understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention nor the scope of the subjoined claims.

Having thus described my invention I claim:—

1. A device of the character described comprising a pair of supporting members each including a pair of spaced legs, rollers journaled on the lower ends of said legs, a curved bar secured upon the upper ends of said legs, a pair of rods pivotally connected at their ends with the lower portion of said legs and connecting said supporting members in spaced relation, downwardly and laterally extending brackets secured to said curved bars and having their end portions laterally directed toward each other, tubular members telescopically engaged upon said laterally directed ends and means for securing said laterally directed ends within said tubular members in adjusted position.

2. A device of the character described comprising a pair of supporting members each including a pair of spaced legs, rollers carried by the lower ends of said legs, a curved bar secured upon the upper ends of said legs, means connecting said supporting

members at their lower portions, laterally and downwardly extending brackets on the upper ends of said legs, and means for connecting said brackets whereby the upper ends of said supporting members may be connected.

3. A device of the character described comprising a pair of supporting members each including a pair of spaced legs, rollers journaled on the lower ends of said legs, a pair of rods pivotally connected at their ends with the lower portions of said legs and connecting said supporting members in spaced relation, a curved bar secured upon the upper ends of said legs, downwardly and laterally extending brackets secured to said curved bars and having their end portions laterally directed toward each other, and means for adjustably connecting said laterally extending portions whereby the distance therebetween may be varied.

4. A device of the character described comprising a pair of supporting members each including a pair of spaced legs, rollers carried by the lower ends of said legs, a bar secured upon the upper ends of said legs, rods connected at their ends with the lower portions of said legs and connecting said supporting members in spaced relation, and downwardly and laterally extending brackets secured to said bars and connecting the upper portions of said supporting members.

In testimony whereof I affix my signature.

HARRISON A. DENNEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."